

Results by Standard

Legend (%)		
0-50%	51-75%	76-100%

Assessment: Idaho Welding Number tested: 157	% Correct 16-17	% Correct 17-18	% Correct 18-19
1) CONTENT STANDARD 1.0: IDENTIFY LAB ORGANIZATION AND SAFETY PROCEDURES	79.65%	78.75%	77.27%
1) Performance Standard 1.1: Demonstrate general lab safety rules and procedures	79.63%	78.71%	77.79%
1.1.1 Describe general shop safety rules and procedures (i.e., safety test)	97.32%	97.89%	97.11%
1.1.2 Describe OSHA in workplace safety	86.58%	84.94%	86.13%
1.1.3 Comply with the required use of safety glasses, ear protection, gloves, and shoes during lab/shop activities, i.e., personal protection equipment (PPE)	96.31%	94.13%	92.77%
1.1.4 Operate lab equipment according to safety guidelines	77.52%	73.95%	73.41%
1.1.5 Identify and use proper lifting procedures and proper use of support equipment (i.e., rigging, chains, straps, cables)	89.26%	88.25%	87.28%
1.1.6 Utilize proper ventilation procedures for working within the lab/shop area	93.29%	94.28%	91.62%
1.1.7 Identify marked safety areas	88.59%	84.64%	83.82%
1.1.8 Identify the location and the types of fire extinguishers and other fire safety equipment; demonstrate knowledge of the procedures for using fire extinguishers and other fire safety equipment	73.83%	73.49%	68.21%
1.1.9 Identify the location and use of eye wash stations	91.28%	91.11%	93.06%
1.1.10 Identify the location of the posted evacuation routes	83.89%	84.94%	75.14%
1.1.11 Identify and wear appropriate clothing for lab/shop activities	46.98%	48.49%	49.71%
1.1.12 Secure hair and jewelry for lab/shop activities	91.95%	90.06%	90.75%
1.1.13 Demonstrate knowledge of the safety aspects of high voltage circuits	85.57%	85.54%	84.68%
1.1.17 Follow written instructions to complete work assignments	79.19%	73.19%	72.25%
1.1.18 Identify requirements for Hot Work Permits	37.92%	36.45%	45.09%
1.1.19 Identify what constitutes a confined space	57.05%	58.89%	52.31%
2) Performance Standard 1.2: Identify and utilize proper tools	81.88%	79.82%	73.70%
1.2.1 Identify hand tools and their appropriate usage	95.97%	97.89%	93.06%

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1.2.3 Demonstrate safe handling and use of appropriate tools	67.79%	61.75%	54.34%
3) Performance Standard 1.3: Identify and utilize power tools and equipment	78.30%	78.41%	75.14%
1.3.1 Identify power tools and equipment, and their appropriate usage	96.64%	93.37%	91.33%
1.3.2 Demonstrate safe handling and use of appropriate power tools and equipment	69.13%	70.93%	67.05%
2) CONTENT STANDARD 2.0: APPLY FUNDAMENTAL PRINT READING, MEASUREMENT AND LAYOUT/FIT-	63.87%	63.60%	67.05%
1) Performance Standard 2.1: Demonstrate print reading and sketching practices	64.26%	61.60%	68.35%
2.1.2 Identify and explain industry standard welding symbols	59.06%	57.53%	62.72%
2.1.7 Fabricate parts from a drawing or sketch	69.46%	65.66%	73.99%
3) Performance Standard 2.3: Utilize layout principles and practices	63.09%	67.62%	64.45%
2.3.3 Select appropriate materials to complete work assignment	53.69%	60.84%	59.54%
2.3.5 Layout parts using measurement practices	72.48%	74.40%	69.36%
3) CONTENT STANDARD 3.0: IDENTIFY PROPERTIES OF METALS	64.93%	64.91%	67.05%
1) Performance Standard 3.1: Identify material properties and science	64.93%	64.91%	67.05%
3.1.1 Identify the difference between ferrous and non-ferrous metals	64.93%	64.91%	67.05%
4) CONTENT STANDARD 4.0: APPLY SHIELDED METAL ARC WELDING (SMAW) TECHNIQUES	70.25%	70.68%	67.63%
1) Performance Standard 4.1: Safety procedures	58.72%	61.14%	57.80%
4.1.1 Identify and explain different types of welding current and polarity	58.72%	61.14%	57.80%
2) Performance Standard 4.2: Produce welds using SMAW on carbon steel	93.29%	89.76%	87.28%
4.2.2 Operate SMAW equipment	93.29%	89.76%	87.28%
5) CONTENT STANDARD 5.0: APPLY GAS METAL ARC WELDING (GMAW-S, GMAW) TECHNIQUES	65.15%	61.92%	63.38%
1) Performance Standard 5.1: Utilize safety procedures	66.44%	65.81%	63.58%
5.1.4 Demonstrate safe startup, shutdown, disassembly, and cylinder exchange procedures of GMAW equipment	66.44%	65.81%	63.58%
2) Performance Standard 5.2: Produce welds using GMAW-S on carbon steel	64.93%	61.27%	63.34%
5.2.1 Set up for GMAW-S operations	53.02%	52.11%	52.60%
5.2.2 Operate GMAW-S equipment	68.46%	62.45%	64.35%
5.2.3 Perform welds in the 1F position	69.46%	61.45%	63.29%
5.2.4 Perform welds in the 2F position	67.11%	65.06%	65.90%
5.2.7 Perform welds in the 1G position	72.48%	62.95%	64.16%
5.2.8 Perform welds in the 2G position	54.03%	56.48%	60.12%
5.2.9 Perform welds in the 3G position	67.11%	66.87%	71.68%
6) CONTENT STANDARD 6.0: APPLY FLUX CORED ARC WELDING (FCAW-G) TECHNIQUE	66.89%	66.06%	63.58%
2) Performance Standard 6.2: Produce welds using FCAW-G on carbon steel	66.89%	66.06%	63.58%

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6.2.1 Set up for FCAW-G operations	77.85%	78.01%	74.57%
6.2.2 Operate FCAW-G equipment	32.89%	32.83%	28.32%
6.2.9 Perform welds in the 3G position	89.93%	87.35%	87.86%
7) CONTENT STANDARD 7.0: APPLY GAS TUNGSTEN ARC WELDING (GTAW) TECHNIQUES	42.28%	37.65%	40.46%
2) Performance Standard 7.2: Produce welds using GTAW on carbon steel	42.28%	37.65%	40.46%
7.2.2 Operate GTAW equipment	42.28%	37.65%	40.46%
8) CONTENT STANDARD 8.0: APPLY THERMAL CUTTING PROCESSES	64.43%	57.72%	63.27%
1) Performance Standard 8.1: Demonstrate oxy-fuel gas cutting (OFC)	71.07%	63.96%	70.71%
8.1.1 Perform safety inspections of OFC equipment and accessories	61.30%	49.80%	64.35%
8.1.3 Demonstrate safe startup, shutdown, disassembly, and cylinder exchange procedures of OFC equipment	67.79%	66.97%	67.82%
8.1.5 Operate OFC equipment	85.23%	81.33%	86.13%
8.1.6 Perform straight, square edge cutting operations in the flat position	81.88%	62.65%	67.63%
2) Performance Standard 8.2: Demonstrate plasma arc cutting (PAC) on carbon steel and aluminum	34.56%	29.67%	29.77%
8.2.5 Set up for PAC operations	51.68%	46.39%	47.98%
8.2.6 Operate PAC equipment	17.45%	12.95%	11.56%
9) CONTENT STANDARD 9.0: IDENTIFY WELDING CODES, INSPECTIONS, AND TESTING PRINCIPLES	64.81%	59.68%	64.49%
1) Performance Standard 9.1: Identify welding codes, qualifications and certifications	63.87%	59.74%	64.07%
9.1.3 Explain the importance of quality workmanship	71.14%	70.48%	72.83%
9.1.5 Perform a visual inspection of fillet welds	56.60%	49.00%	55.30%
2) Performance Standard 9.2: Demonstrate welding inspection and testing principles	70.47%	59.34%	67.05%
9.2.3 Examine tack, root passes, intermediate layers, and completed welds	70.47%	59.34%	67.05%
10) CONTENT STANDARD 10.0: APPLY FABRICATION FUNDAMENTALS	68.56%	64.05%	66.97%
1) Performance Standard 10.1: Utilize base metal preparation fundamentals	70.39%	66.15%	67.41%
10.1.1 Clean base metal for welding or cutting	64.77%	57.38%	60.12%
10.1.2 Identify and explain joint design	91.28%	89.16%	88.44%
10.1.3 Select the proper joint design based on a welding procedure specification (WPS) or instructors direction	26.17%	18.37%	25.43%
10.1.4 Mechanically bevel the edge of a mild steel plate (i.e., hand beveller, grinder)	74.94%	72.59%	72.25%
2) Performance Standard 10.2: Demonstrate fabrication techniques	67.34%	62.65%	66.67%
10.2.1 Demonstrate proper setup of fabrication area, equipment, and materials	80.76%	76.61%	79.96%
10.2.2 Construct projects in the proper sequence	80.09%	74.10%	78.81%

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10.2.3 Properly layout projects from welding prints	58.39%	53.82%	60.89%
10.2.4 Check work for accuracy	50.11%	46.08%	47.01%